



Tesselation 6 (O)

"Ijiwaru-na kisama wo hontou ni bokusatsu itashimasu."

Suite: Tesselation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 2.620

103 + 18 girdles = 121 facets

6-fold, mirror-image symmetry

96 index

L/W = 1.021 T/W = 0.351 U/W = 0.304

P/W = 0.445 C/W = 0.204

Vol./W³ = 0.232

PAVILION

P1	44.25°	01-15-17-31-33-47-49-63-65-79-81-95	Cut to centerpoint.
P2	43.58°	08-24-40-56-72-88	Meet at culet.
G1	90.00°	01-15-17-31-33-47-49-63-65-79-81-95	Set stone size.
G2	90.00°	08-24-40-56-72-88	Level girdle.
P3	41.58°	02-14-18-30-34-46-50-62-66-78-82-94	Meet P1, P2, G1, G2
P4	41.58°	07-09-23-25-39-41-55-57-71-73-87-89	Meet P1, P2, G1, G2, P3
P5	41.02°	01-15-17-31-33-47-49-63-65-79-81-95	Meet P1, P3; P3, P4

CROWN

C1	37.77°	08-24-40-56-72-88	Set girdle width.
C2	67.72°	01-15-17-31-33-47-49-63-65-79-81-95	Level girdle.
C3	39.29°	03-13-19-29-35-45-51-61-67-77-83-93	Meet G1, G2, C1, C2
C4	35.39°	96-16-32-48-64-80	Meet C2, C3
C5	23.10°	08-24-40-56-72-88	Meet C1, C3, C4
C6	20.27°	96-16-32-48-64-80	Meet C1, C3, C4, C5
T	0.00°	Table	Meet C5, C6

This is an expansion of Tesselation 1 (O), continuing the pattern with squares and triangles. The pavilion is surprisingly easy to cut, surprisingly easy to overcut, and very "clean". This cuts a surprisingly bright stone, and is damn sexy in rutile or strontium titanate. Can be cut from feldspar to rutile (RI = 1.52 - 2.62) with no changes. Suggested size = 8-12 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\Tesselations\Tesselation 6 (O).gem